IN THE UNITED STATES PATENT AND TRADEMARK OFFICE DECLARATION AND POWER OF ATTORNEY

Assistant Commissioner for Patents
Washington, D.C., 20231

(JUL 1 5 1999)

Washington, D.C. 20	231	P. C.					
As a below-na	amed inver	ntor, I hereby de	RADEMARY Clare that I believe I am:				
the original, first	and sole in	ventor; or					
an original, first	and joint ir	nventor along w	ith the other inventors lis	sted below, of the subject	t matter whic	ch is	
claimed and for which	a patent i	s sought on the	e invention entitled				
AUTOANTIGENIC FF	RAGMENT	S, METHODS A	AND ASSAYS				
the specification of w	hich	is attached h	ereto;				
	\boxtimes	was filed on	April 22, 1999	as Application			
		Serial No.	09/296,662	and was amen	ided		
		through		(if applicable).			
I hereby state	e that I hav	ve reviewed and	d understand the conten	ts of the above-identified	specification	n, including	
the claims, as amende	ed as indica	ated above.					
I acknowledg	e the duty	to disclose to th	e Patent and Trademark	Office all information kno	own to me to	be material	
to the patentability of t	this applica	ation in accorda	ance with Title 37, Code	of Federal Regulations,	§1.56.		
					* .		
			Foreign Priority	/			
I hereby claim	foreign prid	ority benefits ur	nder Title 35, United Sta	tes Code, §119 (a)-(d) d	of any foreign	n application((s)
for patent or inventor's	certificate	listed below an	d have also identified be	elow any foreign applicat	ion for pater	nt or	
inventor's certificate for	the same	invention havir	ng a filing date before tha	at of the application on w	hich priority	is claimed:	
		Prior For	eign Application(s)		Priority C	Claimed	
N-11-							
Country	Number		Date Filed	Attorney Docket	Yes	No	
Country	Number		Date Filed	Attorney Docket	Voc	No	



I hereby claim the benefit under Title 35, United States Code, §119(e) of any United States provisional application(s) listed below.

60/082,643	April 22, 1998	20221PV
Appln. Ser. No.	Filing Date	Attorney Docket
Appln. Ser. No.	Filing Date	Attorney Docket
Appln. Ser. No.	Filing Date	Attorney Docket
Appln. Ser. No.	Filing Date	Attorney Docket

I hereby claim the benefit under Title 35, United States Code, §120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application(s) in the manner provided by the first paragraph of Title 35, United States Code, §112, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, §1.56 which occurred between the filing date(s) of the prior application(s) and the national or PCT international filing date of this application:

Appln. Ser. No.	Filing Date	Status	Attorney Docket
Appln. Ser. No.	Filing Date	Status	Attorney Docket
Appln. Ser. No.	Filing Date	Status	Attorney Docket
Appln. Ser. No.	Filing Date	Status	Attorney Docket
Appln. Ser. No.	Filing Date	Status	Attorney Docket
Appln. Ser. No.	Filing Date	Status	Attorney Docket

And I hereby appoint Michael D. Yablonsky	Jack L. Tri	hhla	
Reg. No. 40,407			
	my attorneys or ager	nts with full power of	substitution and revocation, to prosecute this
application and to transact all be	usiness in the Patent a	and Trademark Office	e connected therewith. Please address all
communications to:			

Michael D. Yablonsky
Patent Department
Merck & Co., Inc.
P.O. Box 2000
Rahway, NJ 07065-0907

Full name of sole or joint inventor	ANTHONY ROSEN	Full name of joint inventor	DONALD W. NICHOLSON
Inventor's Signature		Inventor's Signature	
Date		Date	
Residence	Columbia, MD 21044	Residence	Montreal, Quebec, Canada
Citizenship	US	Citizenship	CA
Post Office Address (if different from above)	720 Rutland Avenue Baltimore, MD 21205	Post Office Address (if different from above)	126 East Lincoln Avenue Rahway, NJ 07065-0907
Full name of joint inventor	LIVIA CASCIOLA-ROSEN	Full name of joint inventor	FELIPE A ANDRADE
Inventor's Signature		Inventor's Signature	Wightedan.
Date		Date	6-14.99
Residence	Columbia, MD 21044	Residence	Baltimore, MD 21218
Citizenship	US	Citizenship	JB MEXICO 74. 6.14.89
Post Office Address (if different from above)	720 Rutland Avenue Baltimore, MD 21205	Post Office Address (if different from above)	720 Rutland Avenue Baltmore, MD 21205

Full name of joint inventor	SOPHIE ROY	Full name of joint inventor	NANCY A. THORNBERRY
Inventor's Signature		Inventor's Signature	
Date		Date	
Residence	Montreal, Quebec, Canada	Residence	Westfield, NJ 07090
Citizenship	CA	Citizenship	US
Post Office Address (if different from above)	126 East Lincoln Avenue Rahway, NJ 07065-0907	Post Office Address (if different from above)	126 East Lincoln Avenue Rahway, NJ 07065-0907
Full name of joint inventor		Full name of joint inventor	·
Inventor's Signature		Inventor's Signature	
Date		Date	
Residence		Residence	
Citizenship		Citizenship	
Post Office Address (if different from above)		Post Office Address (if different from above)	

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE DECLARATION AND POWER OF ATTORNEY

Assistant Commissioner for Patents Washington, D.C. 20231 As a below-named inventor, I hereby de that I believe I am: the original, first and sole inventor; or an original, first and joint inventor along with the other inventors listed below, of the subject matter which is claimed and for which a patent is sought on the invention entitled **AUTOANTIGENIC FRAGMENTS, METHODS AND ASSAYS** the specification of which is attached hereto; April 22, 1999 was filed on as Application 09/296,662 Serial No. and was amended through (if applicable). I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended as indicated above. I acknowledge the duty to disclose to the Patent and Trademark Office all information known to me to be material to the patentability of this application in accordance with Title 37, Code of Federal Regulations, §1.56. Foreign Priority

I hereby claim foreign priority benefits under Title 35, United States Code, §119 (a)-(d) of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate for the same invention having a filing date before that of the application on which priority is claimed:

	Pri	Prior Foreign Application(s) Priority Claimed				
Country	Number	Date Filed	Attorney Docket	Yes	□ No	
Country	Number	Date Filed	Attorney Docket	Yes	No	

Prior United States Filing

I hereby claim the benefit under Title 35, United States Code, §119(e) of any United States provisional application(s) listed below.

60/082,643	April 22, 1998	20221PV
Appln. Ser. No.	Filing Date	Attorney Docket
Appln. Ser. No.	Filing Date	Attorney Docket
Appln. Ser. No.	Filing Date	Attack Desired
Арріп. Зег. но.	Filing Date	Attorney Docket
Appln. Ser. No.	Filing Date	Attorney Docket

I hereby claim the benefit under Title 35, United States Code, §120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application(s) in the manner provided by the first paragraph of Title 35, United States Code, §112, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, §1.56 which occurred between the filing date(s) of the prior application(s) and the national or PCT international filing date of this application:

Appln. Ser. No.	Filing Date	Status	Attorney Docket
Appln. Ser. No.	Filing Date	Status	Attorney Docket
Anala Can Na			
Appln. Ser. No.	Filing Date	Status	Attorney Docket
Appln. Ser. No.	Filing Date	Status	Attorney Docket
Appln. Ser. No.	Filing Date	Status	Attorney Docket
Appln. Ser. No.	Filing Date	Status	Attorney Docket

And I hereby appoint		
Michael D. Yablonsky	Jack L. Tribble	
Reg. No. 40,407	Reg. No. 32,633	Reg. No.
respectively and individually, as	s my attorneys or agents with full power of s	substitution and revocation, to prosecute this
application and to transact all b	usiness in the Patent and Trademark Office	connected therewith. Please address all
communications to:		

Michael D. Yablonsky
Patent Department
Merck & Co., Inc.
P.O. Box 2000
Rahway, NJ 07065-0907

Full name of sole or		Full same of initial	
joint inventor	ANTHONY ROSEN	Full name of joint inventor	DONALD W. NICHOLSON
Inventor's Signature		Inventor's Signature	Sunc 25, 1999
Date		Date	June 25, 1999
Residence	Columbia, MD 21044	Residence	Montreal, Quebec, Canada
Citizenship	us	Citizenship	CA
Post Office Address (if different from above)	720 Rutland Avenue Baltimore, MD 21205	Post Office Address (if different from above)	126 East Lincoln Avenue Rahway, NJ 07065-0907
Full name of joint inventor	LIVIA CASCIOLA-ROSEN	Full name of joint inventor	FELIPE A. ANDRADE
Inventor's Signature		Inventor's Signature	
Date		Date	
Residence	Columbia, MD 21044	Residence	Baltimore, MD 21218
Citizenship	US	Citizenship	US
Post Office Address (if different from above)	720 Rutland Avenue Baltimore, MD 21205	Post Office Address (if different from above)	720 Rutland Avenue Baltmore, MD 21205

Full name of joint inventor	SOPHIE ROY	Full name of joint	NANCY A. THORNBERRY
		inventor	TO THE MINDENNY
Inventor's Signature	Aplie laz	Inventor's Signature	
Date	Tune 25 1999	Date	
Residence	Montreal, Quebec, Canada	Residence	Westfield, NJ 07090
Citizenship	CA	Citizenship	US
Post Office Address (if different from above)	126 East Lincoln Avenue Rahway, NJ 07065-0907	Post Office Address (if different from above)	126 East Lincoln Avenue Rahway, NJ 07065-0907
Full name of joint inventor		Full name of joint inventor	
Inventor's Signature		Inventor's Signature	
Date		Date	
Residence		Residence	,
Citizenship		Citizenship	
Post Office Address (if different from above)		Post Office Address (if different from above)	

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE DECLAPATION AND POWER OF ATTORNEY

Assistant Commissioner for Patents Washington D.C. 20231

***domington, D.O. 20	J23 I	(, , , ,	1 5 1999				
As a below-named inventor, I hereby deplace that believe I am:							
the original, first and sole inventor; or							
an original, first	and joint in	ventor along w	vith the other inventors	listed below, of the subje	ct matter wh	nich ie	
claimed and for which				, 0 040,0	or matter wi	non is	
AUTOANTIGENIC FF	RAGMENT	S, METHODS .	AND ASSAYS				
the specification of w	hich	is attached h	ereto;				
	\boxtimes	was filed on	April 22, 1999	as Application	1		
		Serial No.	09/296,662	and was ame			
		through		(if applicable)			
l horoby state	. 46 -4 1 1.	· · · · · · · · · · · · · · · · · · ·		 ,			
			understand the conte	nts of the above-identified	d specification	on, including	
the claims, as amende							
				k Office all information kn		o be material	
to the patentability of the	his applicat	tion in accorda	nce with Title 37, Code	e of Federal Regulations,	, §1.56.		
			Foreign Priorit	v			
I hereby claim fo	oreign prioi	rity benefits und		tes Code, §119 (a)-(d) (of any foreig	n annlication(s)	
for patent or inventor's o	ertificate li	sted below and	d have also identified b	elow any foreign applica	tion for pate	nt or	
inventor's certificate for t							
				,,	······································	io dialinida.	
		Prior Ford	siam Amelia ata . ()				
		Prior Fore	eign Application(s)		Priority (Claimed	
Country	Number		Date Filed	Attornous Double			
			ome i ned	Attorney Docket	Yes	No	
Country							
Country	Number		Date Filed	Attorney Docket	Yes	No	

Prior United States Filing

I hereby claim the benefit under Title 35, United States Code, §119(e) of any United States provisional application(s) listed below.

60/082,643	April 22, 1998	20221PV	
Appln. Ser. No.	Filing Date	Attorney Docket	
Appln. Ser. No.	Filing Date	Attorney Docket	
Appln. Ser. No. Filing Date		Attorney Docket	
Appln. Ser. No.	Filing Date	Attorney Docket	

I hereby claim the benefit under Title 35, United States Code, §120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application(s) in the manner provided by the first paragraph of Title 35, United States Code, §112, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, §1.56 which occurred between the filing date(s) of the prior application(s) and the national or PCT international filing date of this application:

Appln. Ser. No.	Filing Date	Status	Attorney Docket
Appln. Ser. No.	Filing Date	Status	Attorney Docket
Appln. Ser. No.	Filing Date	Status	Attorney Docket
Appln. Ser. No.	Filing Date	Status	Attorney Docket
Appln. Ser. No.	Filing Date	Status	Attorney Docket
Appln. Ser. No.	Filing Date	Status	Attorney Docket

And I hereby appoint Michael D. Yablonsky	Jack L. Tribble	
Reg. No. 40,407	Reg. No. 32,633	Reg. No.
respectively and individually, as	my attorneys or agents with full power	of substitution and revocation, to prosecute this
application and to transact all bu	siness in the Patent and Trademark Off	fice connected therewith. Please address all
communications to:		

Michael D. Yablonsky
Patent Department
Merck & Co., Inc.
P.O. Box 2000
Rahway, NJ 07065-0907

DECLARATION AND POWER OF ATTORNEY

Full name of sole or joint inventor	ANTHONY ROSEN	Full name of joint inventor	DONALD W. NICHOLSON
Inventor's Signature		Inventor's Signature	
Date		Date	
Residence	Columbia, MD 21044	Residence	Montreal, Quebec, Canada
Citizenship	US	Citizenship	CA
Post Office Address (if different from above)	720 Rutland Avenue Baltimore, MD 21205	Post Office Address (if different from above)	126 East Lincoln Avenue Rahway, NJ 07065-0907
Full name of joint inventor	LIVIA CASCIOLA-ROSEN	Full name of joint inventor	FELIPE A. ANDRADE
Inventor's Signature		Inventor's Signature	
Date		Date	
Residence	Columbia, MD 21044	Residence	Baltimore, MD 21218
Citizenship	US	Citizenship	US
Post Office Address (if different from above)	720 Rutland Avenue Baltimore, MD 21205	Post Office Address (if different from above)	720 Rutland Avenue Baltmore, MD 21205

Full name of joint	SOPHIE ROY		Full name of joint	NANCY A. THORNBERRY
inventor		_	inventor	MANOTA. HIONNDERNY
Inventor's Signature			Inventor's Signature	narch Thanking
Date			Date	1/11/99
	Montreal, Quebec, Canada			Westfield, NJ 07090
Residence			Residence	
Citizenship	CA		Citizenship	us
Post Office Address (if different from	126 East Lincoln Avenue Rahway, NJ 07065-0907		Post Office Address	126 East Lincoln Avenue Rahway, NJ 07065-0907
above)			(if different from above)	
Full name of joint inventor			Full name of joint inventor	
Inventor's Signature			Inventor's Signature	
Date			Date	
Residence			Residence	
			nesidence	
Citizenship			Citizenship	
Post Office Address (if different from above)			Post Office Address (if different from above)	
		J L		

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE DECLARATION AND POWER OF ATTORNEY

Assistant Commissioner for Patents Washington, D.C. 20231



		CAT & T	RADEMARKSIA			
As a below-na	amed inven	itor, I hereby de	eclare that I believe I am:			
the original, first	and sole in	ventor; or				
an original, first	and joint in	ventor along w	vith the other inventors lis	sted below, of the subjec	t matter whic	ch is
claimed and for which	a patent is	s sought on the	e invention entitled			
AUTOANTIGENIC FF	RAGMENT	S, METHODS	AND ASSAYS			
Abo amosification of cut	-:		,			
the specification of wh	nich []	is attached h	ereto;			
	\boxtimes	was filed on	April 22, 1999	as Application		
		Serial No.	09/296,662	and was amer	nded	
		through		(if applicable).		
I hereby state	that I hav	e reviewed and	d understand the conten	ts of the above-identified	specification	n, including
the claims, as amende	d as indica	ated above.				
I acknowledge	e the duty t	o disclose to th	ne Patent and Trademark	Office all information kno	own to me to	be material
to the patentability of the	his applica	ition in accorda	ance with Title 37, Code	of Federal Regulations,	§1.56.	
			Foreign Priorit	у		
I hereby claim f	oreign pric	ority benefits ur	nder Title 35, United Sta	tes Code, §119 (a)-(d) d	of any foreigr	n application(s)
for patent or inventor's	certificate	listed below an	nd have also identified be	elow any foreign applica	tion for pater	nt or
inventor's certificate for	the same	invention havir	ng a filing date before the	at of the application on w	hich priority	is claimed:
		Prior Fo	reign Application(s)		Data de C	Natara d
	T		1		Priority C	iaimed
Country	Number		Date Filed	Attorney Docket	∫ ∐ Yes	∐ No
					, 163	110
Country	N		B			
Country	Number		Date Filed	Attorney Docket	Voc	No

Prior United States Filing

I hereby claim the benefit under Title 35, United States Code, §119(e) of any United States provisional application(s) listed below.

60/082,643	April 22, 1998	20221PV
Appln. Ser. No.	Filing Date	Attorney Docket
Appln. Ser. No.	Filing Date	Attorney Docket
Appln. Ser. No.	Filing Date	Attorney Docket
Appln. Ser. No.	Filing Date	Attorney Docket

I hereby claim the benefit under Title 35, United States Code, §120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application(s) in the manner provided by the first paragraph of Title 35, United States Code, §112, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, §1.56 which occurred between the filing date(s) of the prior application(s) and the national or PCT international filing date of this application:

Appln. Ser. No.	Filing Date	Status	Attorney Docket
Appln. Ser. No.	Filing Date	Status	Attorney Docket
Appln. Ser. No.	Filing Date	Status	Attorney Docket
Appln. Ser. No.	Filing Date	Status	Attorney Docket
Appln. Ser. No.	Filing Date	Status	Attorney Docket
Appln. Ser. No.	Filing Date	Status	Attorney Docket

And	hereby appoint			
Michael D. Y	ablonsky	Jack L. Tri	ibble	
Reg. No. 4	10,407	Reg. No.	32,633	Reg. No
				substitution and revocation, to prosecute this
application a	nd to transact all busines	s in the Patent a	and Trademark Office	connected therewith. Please address all
communicati	ons to:			

Michael D. Yablonsky
Patent Department
Merck & Co., Inc.
P.O. Box 2000
Rahway, NJ 07065-0907

Full name of sole or joint inventor	ANTYONY ROSEN	Full name of joint inventor	DONALD W. NICHOLSON
Inventor's Signature		Inventor's Signature	
Date	6-14-99	Date	
Residence	Columbia, MD 21044	Residence	Montreal, Quebec, Canada
Citizenship	US	Citizenship	CA
Post Office Address (if different from above)	720 Rutland Avenue Baltimore, MD 21205	Post Office Address (if different from above)	126 East Lincoln Avenue Rahway, NJ 07065-0907
Full name of joint inventor	LIVIA CASCIOLA-ROSEN	Full name of joint inventor	FELIPE A. ANDRADE
Inventor's Signature	Riva assida-loser	Inventor's Signature	
Date	06/14/99	Date	
Residence	Columbia, MD 21044	Residence	Baltimore, MD 21218
Citizenship	US	Citizenship	US
Post Office Address (if different from above)	720 Rutland Avenue Baltimore, MD 21205	Post Office Address (if different from above)	720 Rutland Avenue Baltmore, MD 21205

DECLARATION AND POWER OF ATTORNEY

PATENT Case No. 20221Y

Full name of joint inventor	SOPHIE ROY	Full name of joint inventor	NANCY A. THORNBERRY
Inventor's Signature		Inventor's Signature	
Date		Date	
Residence	Montreal, Quebec, Canada	Residence	Westfield, NJ 07090
Citizenship	CA	Citizenship	US
Post Office Address (if different from above)	126 East Lincoln Avenue Rahway, NJ 07065-0907	Post Office Address (if different from above)	126 East Lincoln Avenue Rahway, NJ 07065-0907
Full name of joint inventor		Full name of joint inventor	
Inventor's Signature		Inventor's Signature	
Date		Date	
Residence		Residence	
Citizenship		Citizenship	
Post Office Address (if different from above)		Post Office Address (if different from above)	